

USER-SPACE RESOURCE MANAGEMENT

ABSTRACT

5 Systems and methods of user-space resource management. Resource
usage of a workload is monitored outside of an operating system space.
Alternatively, resource usage of a workload can be monitored from within the
workload. A resource monitor scans a plurality of workloads to determine if a
workload exceeds a resource capacity limit. The resource monitor can also
10 determine if a workload exceeds a threshold limit that is less than the resource
capacity limit. The resource monitor can initiate a process in user space to
reduce the workload's resource usage. Monitoring resource usage from outside
of an operating system space enables optimization of computing resources
dedicated to resource usage monitoring. In a virtual memory operating system,
15 a user-space resource monitor can perform selection of pages for paging.